## What is claimed is:

- A polishing apparatus for polishing a workpiece,
   said polishing apparatus comprising:
  - a polishing table having a polishing surface;
- a top ring for holding the workpiece and pressing the workpiece against said polishing surface;
  - a dresser for dressing said polishing surface; and
  - a sensor for observing a property of said polishing
- surface on said polishing table when said polishing surface is being dressed by said dresser.
- A polishing apparatus according to claim 1,
   wherein said property of said polishing surface is
   irregularity or undulation thereof.
  - 3. A polishing apparatus according to claim 1, further comprising a display device for displaying the property of said polishing surface observed by said sensor.

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4. A polishing apparatus according to claim 1, wherein said sensor is mounted on one of said top ring and said dresser and is vertically movable independently of said top ring or said dresser.

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5. A polishing apparatus according to claim 1, wherein said sensor measures a property of said polishing surface over an area larger than an area which is dressed by

## said dresser.

- 6. A polishing apparatus according to claim 1, further comprising:
- a determination device for comparing an initial property of said polishing surface which is measured by said sensor with a property of said polishing surface which is measured by said sensor after said polishing surface is dressed by said dresser, and determining when to replace a component of said polishing surface based on the result of comparison.
- 7. A method for polishing a workpiece, comprising:

  holding the workpiece and pressing the workpiece

  15 against a polishing surface on a polishing table to polish the workpiece;

observing a property of said polishing surface on said polishing table by a sensor when said polishing surface is being dressed by a dresser;

comparing an initial property of said polishing surface which is measured by said sensor with a property of said polishing surface which is measured by said sensor after said polishing surface is dressed by said dresser; and

determining when to stop the dressing operation 25 based on the result of comparison.